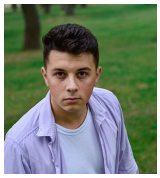
Nume:Ungureanu Alex-Mihai

Foto:



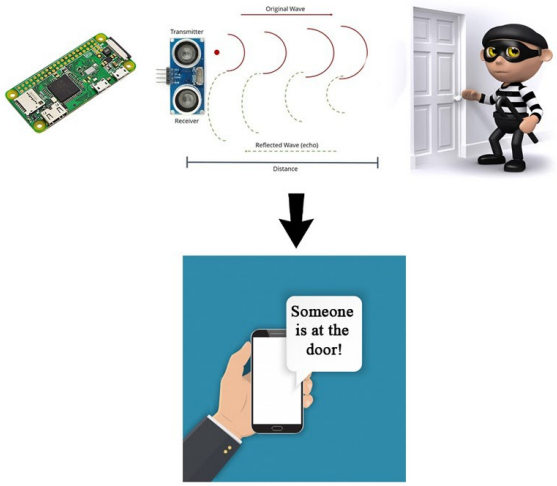
Mail:ungureanualex11@yahoo.com

Name: Sistem de alarma (pentru casa) cu notificare mail

Link Hackster: https://www.hackster.io/alex-ungureanu/home-alarm-system-with-raspberry-pi-zero-w-2d28e7

Elevator pitch: This is a home alarm system with Raspberry Pi Zero W, ultrasonic and buzzer. It sends email notifications.

Cover image:



Story: This is a system that uses an ultrasonic sensor to detect if there is an obstacle at a distance of less than 25cm from it. In case there is an obstacle (possible intruder), it sends a signal to a buzzer that starts ringing and also sends an email to a predefined address.

Video : https://www.youtube.com/watch?v=tW28LviG3SY

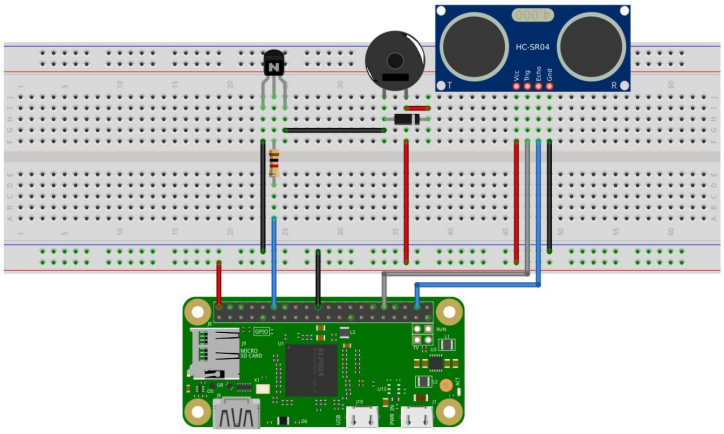
Components and apps:

Hardware components

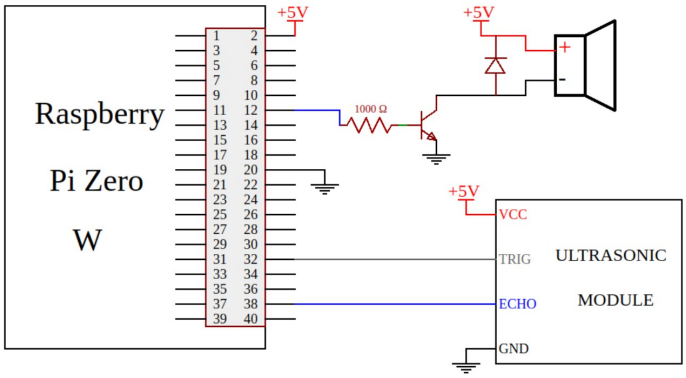
	Ultrasonic Sensor - HC-SR04 (Generic)	× 1
	Female/Female Jumper Wires	× 5
	Male/Male Jumper Wires	× 6
	Raspberry Pi Zero Wireless	× 1
	Zener Single Diode, 3.3 V	× 1
	General Purpose Transistor NPN	× 1
	Breadboard (generic)	× 1
	Buzzer	× 1
	Resistor 1k ohm	× 1

Schematics:

Visual:



Schematic:



Code:

https://github.com/ungureanualex11/projSM/blob/master/buzzer_ultrasonic.py